

LAPORAN TUGAS PEMROGRAMAN BERBASIS FRAMEWORK

Tugas Akhir
Sistem Informasi Kepegawaian



Disusun Oleh :

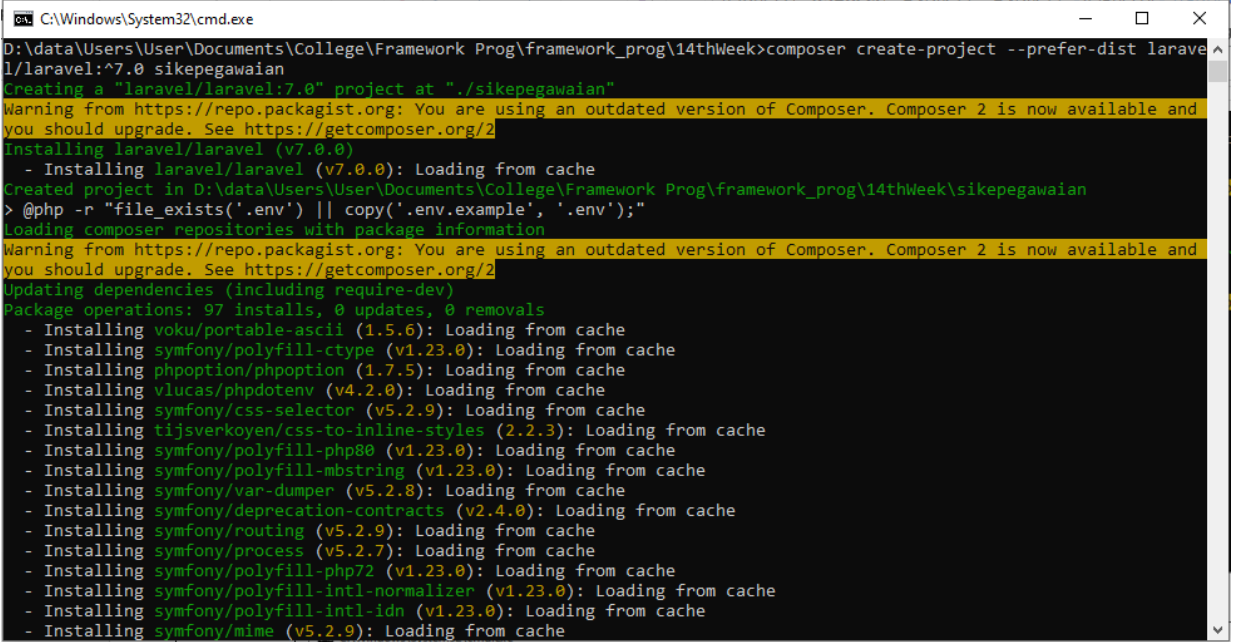
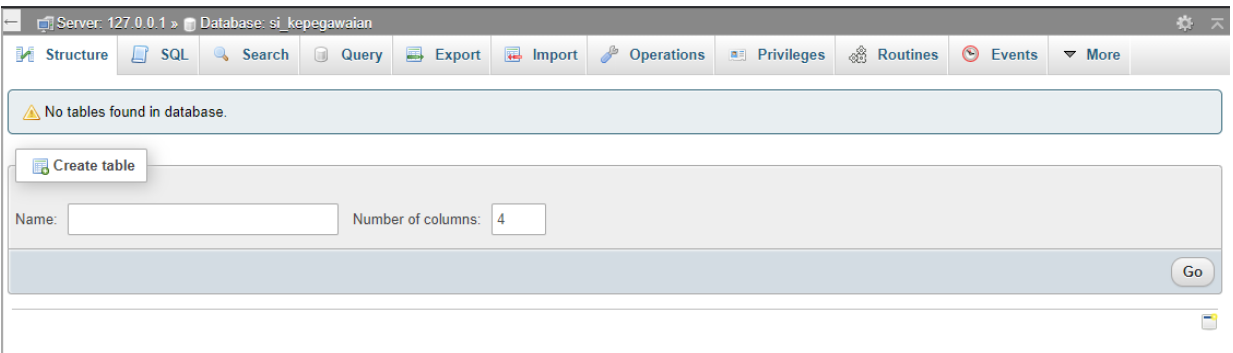
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Politeknik Negeri Malang
Juni 2021

Laporan Project Tugas Akhir Sistem Informasi Kepegawaian

Langkah	Keterangan
1	<p>Untuk membuat project laravel v7 gunakan syntax berikut</p> <p>composer create-project --prefer-dist laravel/laravel:^7.0 sikepegawaian</p>  <p>Buat database baru menggunakan phpmyadmin dengan nama si_kepegawaian</p>  <p>Masuk pada file .env pada project laravel react sikepegawaian, kemudian lakukan konfigurasi database meliputi nama database, username dan password sesuai dengan definisi setting masing-masing aplikasi</p> <pre> .env 1 APP_NAME=Laravel 2 APP_ENV=local 3 APP_KEY=base64:7hdwVp70IBbIrXoj4Gz8dq6b7sPzGzaKknosqZq+f14= 4 APP_DEBUG=true 5 APP_URL=http://localhost 6 7 LOG_CHANNEL=stack 8 9 DB_CONNECTION=mysql 10 DB_HOST=127.0.0.1 11 DB_PORT=3306 12 DB_DATABASE=si_kepegawaian 13 DB_USERNAME=root 14 DB_PASSWORD= 15 </pre>

Buat model beserta migration baru pada project dengan nama Pegawai

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>php artisan make:model Pegawai --migration
Model created successfully.
Created Migration: 2021_05_30_163640_create_pegawais_table
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Kemudian buat model lagi dengan nama Pengguna untuk berinteraksi dengan database table pegawais

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>php artisan make:model Pengguna --migration
Model created successfully.
Created Migration: 2021_05_30_164613_create_penggunas_table
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Lakukan migrate menuju ke database phpmyadmin, apabila berhasil maka akan terbentuk beberapa table baru pada database si_kepegawaian

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>php artisan migrate
Migration table created successfully.
Migrating: 2014_10_12_000000_create_users_table (0.07 seconds)
Migrated: 2014_10_12_000000_create_users_table (0.07 seconds)
Migrating: 2019_08_19_000000_create_failed_jobs_table (0.04 seconds)
Migrated: 2019_08_19_000000_create_failed_jobs_table (0.04 seconds)
Migrating: 2021_05_30_163640_create_pegawais_table (0.03 seconds)
Migrated: 2021_05_30_163640_create_pegawais_table (0.03 seconds)
Migrating: 2021_05_30_164613_create_penggunas_table (0.03 seconds)
Migrated: 2021_05_30_164613_create_penggunas_table (0.03 seconds)
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Tambahkan controller bernama PenggunaController sebagai pehubung antara model dan view reactjs

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>php artisan make:controller PenggunaController
Controller created successfully.
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Buat controller lagi seperti pada langkah sebelumnya dengan nama PegawaiController

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>php artisan make:controller PegawaiController
Controller created successfully.
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Lakukan instalasi package laravel ui menggunakan syntax **composer laravel/ui “^2.0”**

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>composer require laravel/ui "^2.0"
Warning from https://repo.packagist.org: You are using an outdated version of Composer. Composer 2 is now available and you should upgrade. See https://getcomposer.org/2
./composer.json has been updated
Loading composer repositories with package information
Warning from https://repo.packagist.org: You are using an outdated version of Composer. Composer 2 is now available and you should upgrade. See https://getcomposer.org/2
Updating dependencies (including require-dev)
Package operations: 1 install, 0 updates, 0 removals
  - Installing laravel/ui (v2.5.0): Loading from cache
Package fzaninotto/faker is abandoned, you should avoid using it. No replacement was suggested.
Package phpunit/php-token-stream is abandoned, you should avoid using it. No replacement was suggested.
Writing lock file
Generating optimized autoload files
> Illuminate\Foundation\ComposerScripts::postAutoloadDump
> @php artisan package:discover --ansi
Discovered Package: facade/ignition
Discovered Package: fideloper/proxy
Discovered Package: fruitcake/laravel-cors
Discovered Package: laravel/tinker
Discovered Package: laravel/ui
Discovered Package: nesbot/carbon
Discovered Package: nunomaduro/collision
Package manifest generated successfully.
66 packages you are using are looking for funding.
Use the `composer fund` command to find out more!
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Kemudian lakukan instalasi reactjs

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>php artisan ui react
React scaffolding installed successfully.
Please run "npm install && npm run dev" to compile your fresh scaffolding.

D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Kemudian eksekusi **npm install && npm run dev** untuk melakukan update pada package laravel react

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>php artisan ui react
React scaffolding installed successfully.
Please run "npm install && npm run dev" to compile your fresh scaffolding.

D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>npm install && npm run dev
npm WARN deprecated popper.js@1.16.1: You can find the new Popper v2 at @popperjs/core, this package is dedicated to the
legacy v1
npm WARN deprecated chokidar@2.1.8: Chokidar 2 will break on node v14+. Upgrade to chokidar 3 with 15x less dependencies
.
npm WARN deprecated fsevents@1.2.13: fsevents 1 will break on node v14+ and could be using insecure binaries. Upgrade to
fsevents 2.
npm WARN deprecated unix@0.1.0: Please see https://github.com/lydell/unix#deprecated
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm notice created a lockfile as package-lock.json. You should commit this file.
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~1.2.7 (node_modules\chokidar\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"an
y"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~2.3.1 (node_modules\watchpack\node_modules\chokidar\node_modul
es\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@~2.3.1 (node_modules\sass\node_modules\chokidar\node_modules\fs
events):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})

added 1129 packages from 500 contributors and audited 1133 packages in 71.282s

59 packages are looking for funding
  run `npm fund` for details
```

Lalu install react router dom menggunakan syntax **npm install react-router-dom**

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>npm install react-router-dom
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"an
y"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\sass\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})

+ react-router-dom@5.2.0
added 11 packages from 6 contributors and audited 1144 packages in 10.75s

59 packages are looking for funding
  run `npm fund` for details

found 37 vulnerabilities (36 moderate, 1 high)
  run `npm audit fix` to fix them, or `npm audit` for details

D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Terakhir tambahkan sweet alert bootstrap untuk menampilkan alert kepada user ketika action yang diberikan oleh user success maupun failed

```
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>npm i react-bootstrap-sweetale
rt
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.13 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.13: wanted {"os":"darwin","arch":"an
y"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\sass\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@2.3.2 (node_modules\watchpack\node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@2.3.2: wanted {"os":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})

+ react-bootstrap-sweetalert@5.2.0
added 1 package from 1 contributor and audited 1145 packages in 11.318s

59 packages are looking for funding
  run `npm fund` for details

found 37 vulnerabilities (36 moderate, 1 high)
  run `npm audit fix` to fix them, or `npm audit` for details

D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>
```

Buka file Pegawai.php yang merupakan model untuk menghubungkan Pegawai Controller dengan view kemudian tambahkan source code berikut

```
1 <?php
2
3 namespace App;
4
5 use Illuminate\Database\Eloquent\Model;
6
7 class Pegawai extends Model
8 {
9     protected $table = "pegawais";
10    protected $fillable = ['nip', 'nama', 'jk', 'divisi', 'jabatan', 'status', 'role'];
11 }
12
```

Tambahkan source code berikut pada file PegawaiController untuk melakukan proses eloquent pada laravel dengan model Pegawai dan database si_kepegawaian

```
1 <?php
2
3 namespace App\Http\Controllers;
4
5 use Illuminate\Http\Request;
6
7 class PegawaiController extends Controller
8 {
9     public function getAllPegawai()
10    {
11        $pegawai = \App\Pegawai::all();
12        return $pegawai->toJson();
13    }
14
15    public function store(Request $request)
16    {
17        $validatedData = $request->validate([
18            'nip' => 'required',
19            'nama' => 'required',
20            'jk' => 'required',
21            'divisi' => 'required',
22            'jabatan' => 'required',
23            'status' => 'required',
24            'role' => 'required'
25        ]);
26
27        $data = \App\Pegawai::create([
28            'nip' => $validatedData['nip'],
29            'nama' => $validatedData['nama'],
30            'jk' => $validatedData['jk'],
31            'divisi' => $validatedData['divisi'],
32            'jabatan' => $validatedData['jabatan'],
33
34            'status' => $validatedData['status'],
35            'role' => $validatedData['role']
36        ]);
37
38        $msg = [
39            'success' => true,
40            'message' => 'Step 2-Final Register New Account successfully'
41        ];
42
43        return response()->json($msg);
44    }
45
46    public function getPegawai($nip)
47    {
48        $pegawai = \App\Pegawai::where('nip', $nip)->get();
49        return $pegawai->toJson();
50    }
51
52    public function delete($nip)
53    {
54        $checkPegawai = \App\Pegawai::where('nip', $nip)->get();
55        $delPegawai = \App\Pegawai::where('nip', $nip)->delete();
56        if (!empty($checkPegawai)) {
57            $delPegawai;
58            $msg = [
59                'success' => true,
```

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```

58         'success' => true,
59         'message' => 'Employee deleted successfully!'
60     ];
61     return response()->json($msg);
62 } else {
63     $msg = [
64         'success' => false,
65         'message' => 'Employee deleted failed!'
66     ];
67     return response()->json($msg);
68 }
69 }
70
71 public function update(Request $request, $nip)
72 {
73     $validatedData = $request->validate([
74         'nip' => 'required',
75         'nama' => 'required',
76         'jk' => 'required',
77         'divisi' => 'required',
78         'jabatan' => 'required',
79         'status' => 'required',
80         'role' => 'required'
81     ]);
82
83     $pegawai = \App\Pegawai::where('nip', $nip)->get();
84     $pegawai[0]->nip = $validatedData['nip'];
85     $pegawai[0]->nama = $validatedData['nama'];
86     $pegawai[0]->jk = $validatedData['jk'];
87     $pegawai[0]->divisi = $validatedData['divisi'];
88     $pegawai[0]->jabatan = $validatedData['jabatan'];
89     $pegawai[0]->status = $validatedData['status'];
90
91     $pegawai = \App\Pegawai::where('nip', $nip)->get();
92     $pegawai[0]->nip = $validatedData['nip'];
93     $pegawai[0]->nama = $validatedData['nama'];
94     $pegawai[0]->jk = $validatedData['jk'];
95     $pegawai[0]->divisi = $validatedData['divisi'];
96     $pegawai[0]->jabatan = $validatedData['jabatan'];
97     $pegawai[0]->status = $validatedData['status'];
98     $pegawai[0]->role = $validatedData['role'];
99     $pegawai[0]->save();
100
101     $msg = [
102         'success' => true,
103         'message' => 'Pegawai updated successfully'
104     ];
105
106     return response()->json($msg);
107 }
108 }
109
110 }
111

```

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Tambahkan title project sikepegawaian pada tag head, kemudian dalam tag body tambahkan id=app untuk menampilkan body yang terdapat pada resources/js/component\

```

1 <!DOCTYPE html>
2 <html lang="{{ app()->getLocale() }}">
3
4 <head>
5     <meta charset="utf-8">
6     <meta http-equiv="X-UA-Compatible" content="IE=edge">
7     <meta name="viewport" content="width=device-width, initial-scale=1">
8
9     <!-- CSRF Token -->
10    <meta name="csrf-token" content="{{ csrf_token() }}">
11
12    <title>SI Kepegawaian</title>
13
14    <!-- Styles -->
15    <link href="{{ asset('css/app.css') }}" rel="stylesheet">
16 </head>
17
18 <body>
19     <div id="app"></div>
20
21     <script src="{{ asset('js/app.js') }}"></script>
22 </body>
23
24 </html>

```

Tambahkan source code berikut pada routes/api.php untuk melakukan interaksi antara view reactjs dengan backend laravel menggunakan API request diantaranya post, get, put dan delete


```

1 <?php
2
3 use Illuminate\Http\Request;
4 use Illuminate\Support\Facades\Route;
5
6 /*
7 |-----
8 | API Routes
9 |-----
10 |
11 | Here is where you can register API routes for your application. These
12 | routes are loaded by the RouteServiceProvider within a group which
13 | is assigned the "api" middleware group. Enjoy building your API!
14 |
15 */
16
17 Route::post('/pengguna/store', 'PenggunaController@store');
18 Route::post('/pegawai/store', 'PegawaiController@store');
19 Route::get('/pengguna/{nip}', 'PenggunaController@getPengguna');
20 Route::get('/pegawai', 'PegawaiController@getAllPegawai');
21 Route::delete('/pegawai/delete/{nip}', 'PegawaiController@delete');
22 Route::put('/pegawai/{nip}', 'PegawaiController@update');
23 Route::get('/pegawai/edit/{nip}', 'PegawaiController@getPegawai');
24 Route::get('/pengguna', 'PenggunaController@getAllPengguna');
25 Route::put('/pengguna/{nip}', 'PenggunaController@update');
26 Route::get('/pengguna/edit/{nip}', 'PenggunaController@getPengguna');
27 Route::delete('/pengguna/delete/{nip}', 'PenggunaController@delete');
28 Route::get('/pegawai/read/{nip}', 'PegawaiController@getPegawai');
29

```

Terakhir tambahkan route untuk view yang akan ditampilkan pada reactjs pada tampilan web

```

1 <?php
2
3 use Illuminate\Support\Facades\Route;
4
5 /*
6 |-----
7 | Web Routes
8 |-----
9 |
10 | Here is where you can register web routes for your application. These
11 | routes are loaded by the RouteServiceProvider within a group which
12 | contains the "web" middleware group. Now create something great!
13 |
14 */
15
16 Route::get('/', function () {
17     return view('welcome');
18 });
19
20 Route::view('/home', 'app');
21 Route::view('/register', 'app');
22 Route::view('/registersecond', 'app');
23 Route::view('/login', 'app');
24 Route::view('/dashboarduser/{nip}', 'app');
25 Route::view('/dashboardadmin', 'app');
26 Route::view('/managepegawai', 'app');
27 Route::view('/pegawai/edit/{nip}', 'app');
28 Route::view('/pegawaicreate', 'app');
29 Route::view('/managepengguna', 'app');
30 Route::view('/pengunacreate', 'app');
31 Route::view('/biodata/{nip}', 'app');
32 Route::view('/task/{nip}', 'app');

```

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Kemudian lakukan run didalam project sikepegawaian menggunakan syntax **php artisan serve** dan masuk pada browser dengan url <http://localhost:8000/home>

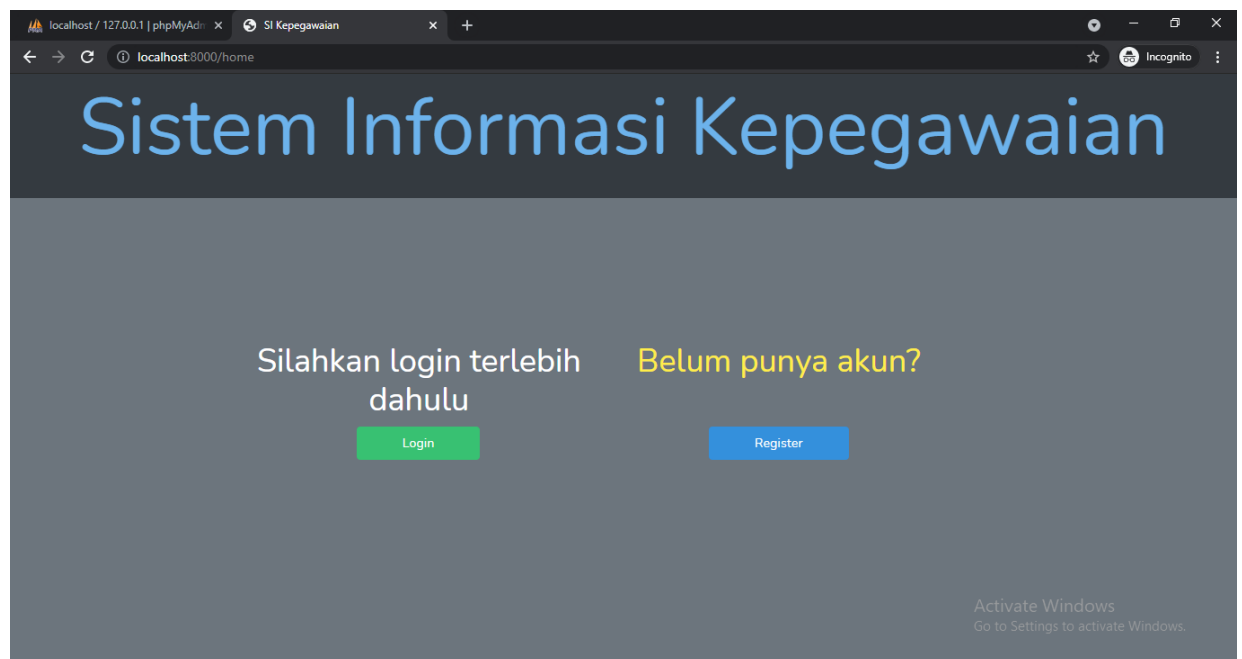
```

C:\Windows\System32\cmd.exe - php artisan serve
Microsoft Windows [Version 10.0.18363.1500]
(c) 2019 Microsoft Corporation. All rights reserved.

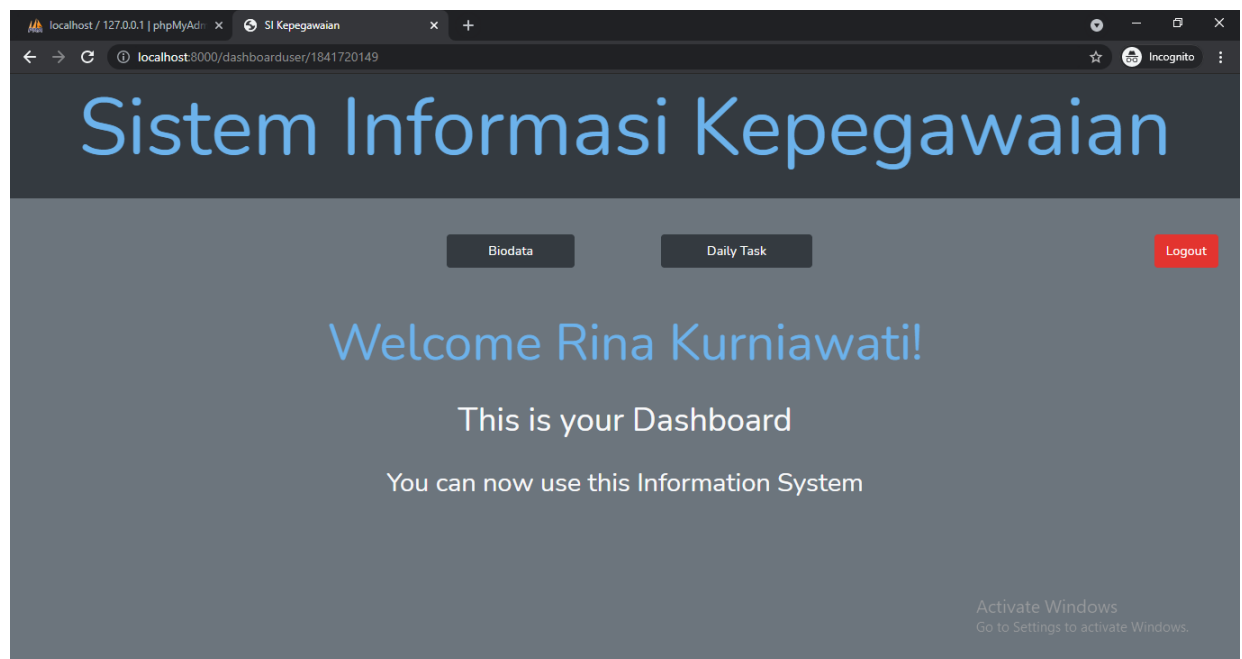
D:\data\Users\User\Documents\College\Framework Prog\framework_prog\14thWeek\sikepegawaian>php artisan serve
Laravel development server started: http://127.0.0.1:8000
[Mon Jun 14 18:03:57 2021] PHP 7.4.9 Development Server (http://127.0.0.1:8000) started
[Mon Jun 14 18:04:19 2021] 127.0.0.1:64338 Accepted
[Mon Jun 14 18:04:21 2021] 127.0.0.1:64338 Closing
[Mon Jun 14 18:04:21 2021] 127.0.0.1:56807 Accepted
[Mon Jun 14 18:04:21 2021] 127.0.0.1:56807 [200]: GET /css/app.css
[Mon Jun 14 18:04:21 2021] 127.0.0.1:56807 Closing
[Mon Jun 14 18:04:21 2021] 127.0.0.1:54324 Accepted
[Mon Jun 14 18:04:22 2021] 127.0.0.1:54324 [200]: GET /js/app.js
[Mon Jun 14 18:04:22 2021] 127.0.0.1:54324 Closing
[Mon Jun 14 18:04:23 2021] 127.0.0.1:60716 Accepted
[Mon Jun 14 18:04:23 2021] 127.0.0.1:60716 [200]: GET /favicon.ico
[Mon Jun 14 18:04:23 2021] 127.0.0.1:60716 Closing
[Mon Jun 14 18:04:24 2021] 127.0.0.1:65201 Accepted

```

Berikut merupakan tampilan awal user ketika login sebelum menuju ke dashboard



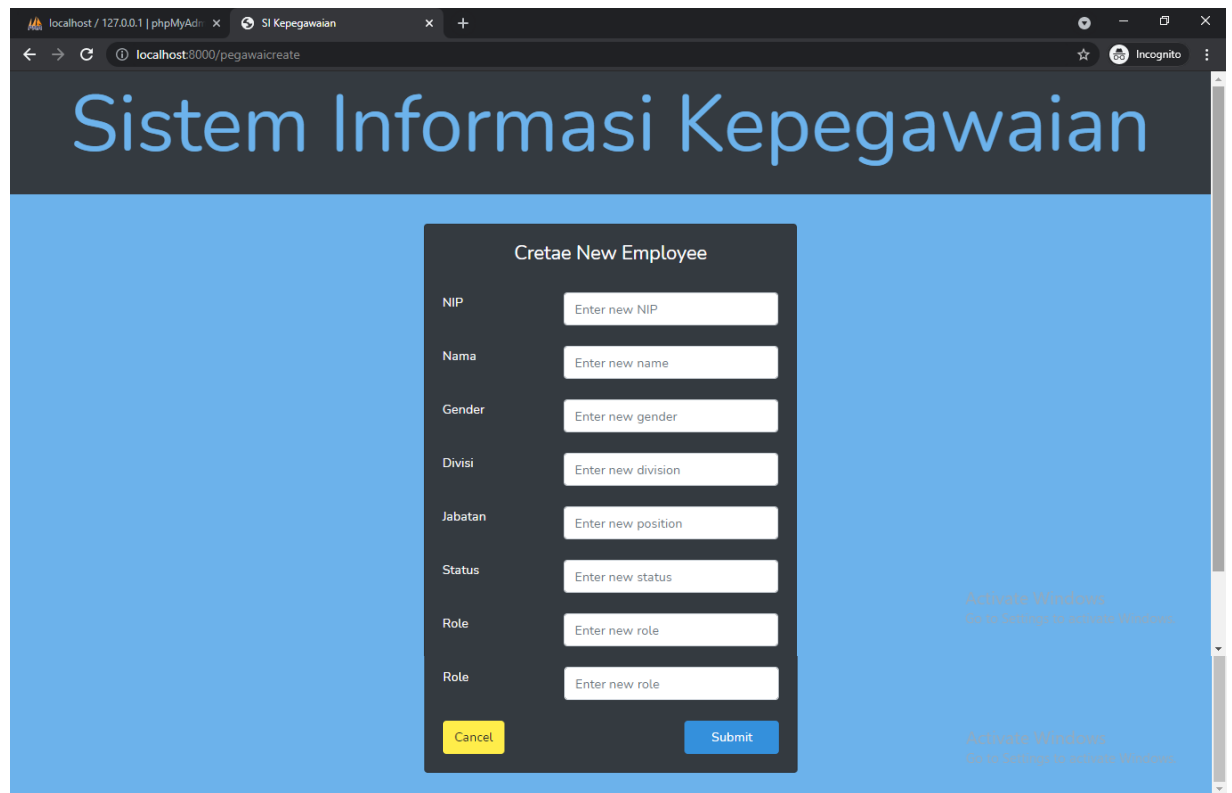
Tampilan ketika user telah login dan masuk ke dalam dashboard user dengan menampilkan nama user yang sedang login



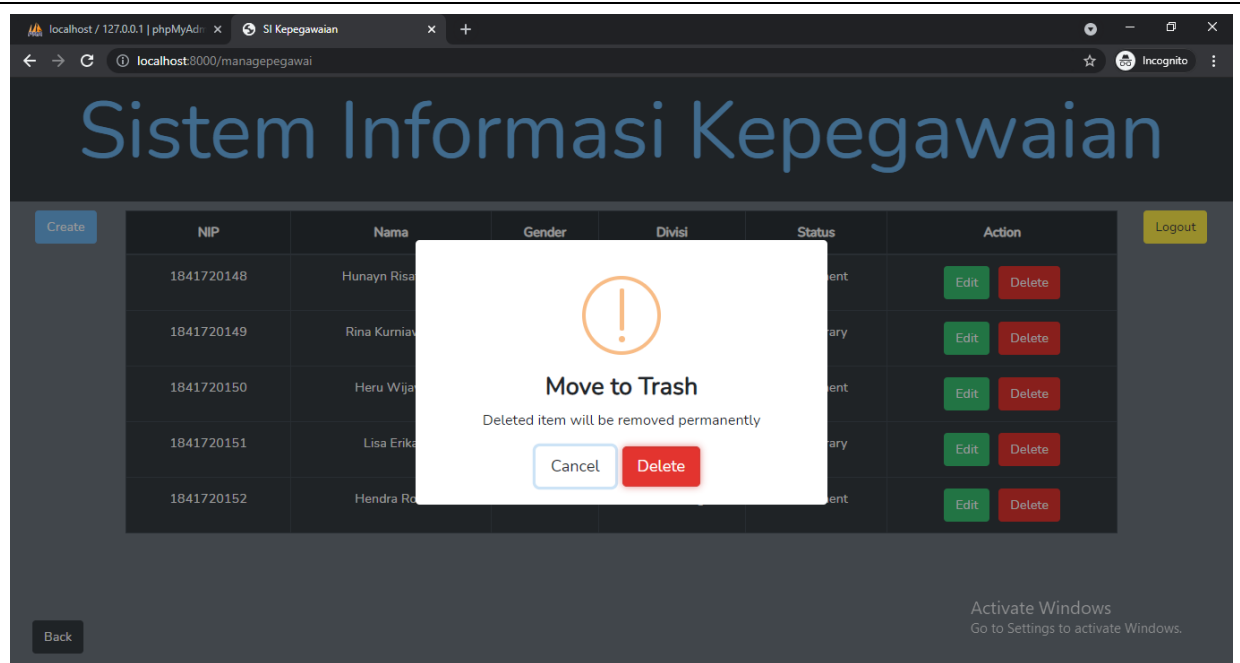
Tampilan halaman admin untuk mengelola data pegawai meliputi create, update, delete



Tampilan admin untuk menambahkan user baru pada database si_kepegawaian



Alert yang ditampilkan menggunakan library sweet-alert-bootstrap untuk memberikan konfirmasi kepada user saat melakukan delete pada salah satu row



Link GitHub : https://github.com/hunaynr/framework_prog/tree/main/14thWeek

Link Youtube : https://www.youtube.com/channel/UCP53BJw16j_nt4Y0sETg1rA

